PTO/SB/05 (08-08)

Approved for use through 07/31/2006, OMB 0651-0032 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

UTILITY PATENT APPLICATION **TRANSMITTAL**

Under the Paperwork Reduction Act of 1995, no persons are required to	respond to a collection of inform	nation unless it displays a valid OMB control number.			
UTILITY	Attorney Docket No.	HCI-102-A			
PATENT APPLICATION	First Inventor	GIULIO PETTINAROLI			
TRANSMITTAL	Title	IMPROVEMENTS IN OR RELATING TO BALL VALVES			
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No.	EH188460894US			

	APPLICATION ELEMENTS hapter 600 concerning utility patent application contents.	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450								
2. X Applicar See 37 3. X Specific (preferred - Descrip - Cross F - Stateme - Referer or a cor - Background - Brief St Brief St Brief St Detailed - Claim(s - Abstract - Claim(s - Abstract - Claim(s - Abstract - Claim(s - Claim(s - Abstract - Claim(s -	d arrangement set forth below) tive title of the invention Reference to Related Applications ent Regarding Fed sponsored R & D noe to sequence listing, a table, imputer program listing appendix ound of the Invention ummary of the Invention escription of the Drawings (if filed) d Description b) ct of the Disclosure g(s) (35 U.S.C. 113) [Total Sheets 3]	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1499 Citations 13. Preliminary Amendment 14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.								
specification follo	UING APPLICATION, check appropriate box, and supposing the title, or in an Application Data Sheet under 3	l ply the requisite information below and in th 7 CFR 1.76:	he first sentence of the							
Prior application ini For CONTINUATIO 5b, is considered	Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner For CONTINUATION OF DIVISIONAL APPS only; The entire disciosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disciosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.									
Custome	Customer Number: OR X Correspondence address below									
Name (Charles Chandler, Charles W. Chandler, At	tornev								
Address	33150 Schoolcraft									
	Livonia State MI Zip Code 48150									
Country		Telephone 734-522-0920	Fax 734-522-5657							
Name (Print/Typ Signature										

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

(Complete (if applicable)

Date

Telephone 734-522-0920

1/12/04

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it displays a valid OMB control surpless. Under the Paperwork Reduction Act of 1995, no persons are required to res

FEE	TR	AN	SMI	T	TAL
f	or F	ΞY	200	4	

Effective 10/01/2003. Patent fees are subject to annual revision.

|X| Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

SUBMITTED BY

Name (Print/Type)

Signature

Charles W. Chardler

(\$`	3	85	O

spond to a conection of file	ornation unless it displays a valid ONB control number.					
Complete if Known						
Application Number						
Filing Date						
First Named Inventor	GIULIO PETTINAROLI					
Examiner Name						
Art Unit						
Attorney Docket No.	HCI-102-A					

METH	OD OF PA	YMENT (check all th	at apply)	FEE CALCULATION (continued)					
Check	Credit care	d Money Ott	ner None	3. A	DDITI	ONAI	. FEE	S	
X Deposit Account:							Entity		
Deposit		501000		Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account Number		501280		1051	130	2051	,	Surcharge - late filing fee or oath	ree Faid
Deposit Account	CHAE	RLES W. CHAND	LER	1052	50	2052		Surcharge - late provisional filing fee or	
Name			<u>zzk</u>	1053	130	1053	130	cover sheet Non-English specification	
X Charge for	is autnorized t e(s) indicated b	co: (check all that apply)	overpayments		2,520	1812		For filing a request for ex parte reexamination	
		elow Credit any the control of	• •	1804	920*	1804	-	Requesting publication of SIR prior to	
		elow, except for the filing	` '					Examiner action	
•—	dentified deposi		lee	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
		CALCULATION		1251	110	2251	55	Extension for reply within first month	
1. BASIC F				1252	420	2252	210	Extension for reply within second month	
Large Entity	Small Entity			1253	950	2253	475	Extension for reply within third month	
Fee Fee Code (\$)	Fee Fee Code (\$)	Fee Description	Fee Paid	1254	1,480	2254	740	Extension for reply within fourth month	
1001 770	2001 385	Utility filing fee	12000 8	1255	2,010	2255	1,005	Extension for reply within fifth month	
1002 340	2002 170	Design filing fee	395.	1401	330	2401	165	Notice of Appeal	
1003 530	2003 265	Plant filing fee		1402	330	2402	165	Filing brief in support of an appeal	
1004 770	2004 385	Reissue filing fee		1403	290	2403	145	Request for oral hearing	
1005 160	2005 80	Provisional filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
		SUBTOTAL (1) (\$)	<i>3</i> 85 ~	1452	110	2452	55	Petition to revive - unavoidable	
2 EYTDA		S FOR UTILITY AN		1453	1,330	2453	665	Petition to revive - unintentional	
Z. EXTRA	CLAIIVI FEE	Fee fro	om	1501	1,330	2501	665	Utility issue fee (or reissue)	
Total Claims	12	Extra Claims below $0 + x = 0$		1502	480	2502	240	Design issue fee	
Independent)** = [0	 0	1503	640	2503	320	Plant issue fee	
Claims Multiple Depe		^	<u> </u>	1460	130	1460	130	Petitions to the Commissioner	
		. L	الــــــــــــــــــــــــــــــــــــ	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
Large Entity Fee Fee	Fee Fee	<u>Fee Description</u>		1806	180	1806	180	Submission of Information Disclosure Stmt	
Code (\$) 1202 18	Code (\$) 2202 9	Claims in excess of 2	•	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1202 18	2201 43		-	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290	2203 145		•	1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1204 86	2204 43	3 ** Reissue independe over original patent	nt ciaims	1801	770	2801	385	Request for Continued Examination (RCE)	
1205 18	2205	** Reissue claims in e and over original pa		1802	900	1802		Request for expedited examination of a design application	
	0.00	Other fee (specify)							
**or numbe		BTOTAL (2) (\$) id, if greater, For Reissue		*Redu	uced by	Basic	Filing F	ee Paid SUBTOTAL (3) (\$)	

WARNING: Inf rmati n on this form may becom public. Credit card inf rmation should not be included in this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Registration No. (Attorney/Agent)

24,290

PTO/SB/06 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION Substitut for Form PTO-875							N	RECORD		Applicat	tion or Docket Nu 02-A / ,	
CLAIMS AS FILED - PART I (Column 1) (Column 2)							SMALL ENTITY		OR	OTHER THAN SMALL ENTITY		
	FOR		NUMBI	ER FILED	NUMB	ER EXTRA		RATE	FEE		RATE	FEE
	C FEE FR 1.16(a))								\$	OR		s
	AL CLAIMS FR 1.16(c))		12	minus 20)= •			x s <u>9</u> =		OR	x \$=	
INDE	PENDENT CLAIMS	S	2	minus :				x \$ 42 =		OR	x \$=	
	TIPLE DÉPEND	ENT		ENT (37 CFR 1.16(d))			+\$ =		OR	+\$ =	
• If ti	ne difference in c	:olum	n 1 is less tha	ın zero, er	ter "0" in column	2.		TOTAL		OR	TOTAL	
	C	LAIN	IS AS AME	ENDED	_ DADT II							
	O		IO AO AIVII	LNULU	- FANT II					0.0	OTHER	R THAN
Щ			olumn 1)		(Column 2)	(Column 3)		SMALL I	ENTITY	OR		ENTITY
ENT A		RE	CLAIMS EMAINING AFTER ENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE	ADDI- TIONAL FEE		RATE	ADDI- TIONAL FEE
Ĭ	Total (37 CFR 1.16(c))	*		Minus	**	=		x \$ =		OR	x \$=	
AMENDMENT	Independent (37 CFR 1.18(b))	*		Minus	***	=		x \$=		OR	x \$=	
Ą	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))			+ \$=		OR	+ \$=					
					<u> </u>			TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
		(C	olumn 1)		(Column 2)	(Column 3)						
ENT B		RE	CLAIMS MAINING AFTER ENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE	ADDI- TIONAL FEE		RATE	ADDI- TIONAL FEE
N N	Total (37 CFR 1.16(c))	*		Minus	**	=		x \$=		OR	x \$ =	
AMENDMENT	Independent (37 CFR 1.16(b))	*		Minus	***	=		x \$=		OR	x s=	
A	FIRST PRESENT	FATIO	OF MULTIPLE	E DEPEND	ENT CLAIM (37 CFF	R 1.16(d))		+ \$=		OR	+ \$=	
			. =					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
			Column 1)		(Column 2)	(Column 3)						
ENT C		RE	CLAIMS MAINING AFTER ENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE	ADDI- TIONAL FEE		RATE	ADDI- TIONAL FEE
ĮΣ	Total (37 CFR 1.16(c))	*		Minus	**	=		x \$=		OR	X \$ =	
AMENDMENT	Independent (37 CFR 1.16(b))	*		Minus	***	=		X \$=		OR	x \$=	
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))							+ \$=		OR	+ \$=		
								TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
Ι.	* If the "Highest * If the "Highest	Numt Numt	er Previously er Previously	Paid For	y in column 2, writ IN THIS SPACE IN THIS SPACE (Total or Independ	is less than 20, is less than 3, e	ent nte	r "3".	the energy is	ito hov is :	ookuma 4	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re. Patent Application of: Giulio Pettinaroli

Serial No.

Unknown

Examiner:

Filing Date:

Unknown

Art Unit:

For:

IMPROVEMENTS IN OR RELATING TO BALL VALVES

EXPRESS MAIL CERTIFICATION

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Express Mail:

Mailing Label

EH188460894US

Date of Deposit

january 14, 2003

I hereby certify that the enclosed patent application consisting of 8 pages of description, 12 claims, Abstract of Disclosure, 3 sheets of drawings (in duplicate), Declaration for Utility Patent Application, Fee Transmittal, and Utility Patent Application Transmittal, are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA 22313-1450.

Carrie O'Meara